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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/401,521	09/22/1999	CHARLES MEUBUS	91436-123C	4780

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EXAMINER

PHAN, JOSEPH T

ART UNIT	PAPER NUMBER
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2645

DATE MAILED: 01/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/401,521

Applicant(s)

MEUBUS ET AL.

Examiner

Joseph T Phan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 November 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21-61 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21-61 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 September 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3 6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 21-23, 25-31, 33-35 rejected under 35 U.S.C. 102(e) as being anticipated by Norris et al., Patent #5805587.

Regarding claim 21, Norris teaches a plurality of telephony switches interconnected in a switched traffic carrying network for carrying telephone call traffic (Fig.1) and an associated signaling network for carrying signaling information relevant to the establishment of call paths on said traffic carrying network (col.2 lines 31-45 Fig.1);

a method of processing an incoming call directed to a specified subscriber telephone line on said traffic carrying network, said specified subscriber telephone line initially in-use to connect a data terminal to a data network, said method comprising:

receiving a signaling message from said signaling network generated in response to said incoming call, said received signaling message received prior to establishment of a call path for said incoming call on said traffic carrying network (col.5 line 66 – col.6 line 11);

in response to said received signaling message, dispatching a first data message indicative of said incoming call to said data terminal on said data network by way of said traffic carrying network and said specified subscriber telephone line(602 Fig.6; the data message from the incoming call is sent visually to the data terminal user).

Regarding claims 22-23 in view of claim 21, Norris teaches:

receiving a second data message from said data terminal, said second data message indicative of a call disposition response provided to incoming call (609 Fig.6).

in response to receiving said second data message, dispatching a signaling message on said signaling network to establish a call path between said incoming call and said specified subscriber telephone line on said traffic carrying network (604 Fig.6).

Regarding claim 24 in view of claim 21, Norris teaches said signaling network comprises an intelligent network, and wherein said received signaling message is received from a processing element forming part of said signaling network [205 Fig. 3; Norris's network is intelligent (e.g. call waiting while subscriber is utilizing the telephone line to connect to the internet)], therefore Norris comprises an intelligent network.

Regarding claim 25 in view of claim 22, Norris teaches the received signaling message comprises a telephone dial number identifying said specified subscriber telephone line (col. 2 lines 35-39).

Regarding claim 26 in view of claim 25, Norris teaches said received signaling message comprises at least one of a dial number associated with an originator of said

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incoming call and a name associated with an originator of said incoming call (col. 2 lines 35-39).

Regarding claim 27 in view of claim 21, Norris teaches said data network comprises an internet protocol compliant network, and wherein said first data message comprises a internet protocol compliant message (col.8 lines 20-32; Norris' data messages are sent over the internet therefore Norris' data message comprises an internet protocol compliant message).

Regarding claim 28 in view of claim 26, Norris teaches said first data message comprises at least one of a dial number associated with an originator of said incoming call and a name associated with an originator of said incoming call(602 Fig.6).

Regarding claim 29, Norris teaches a notification server comprising with a first interface connected to a telephone signaling network adapted to receive signaling messages;
a first interface for connection of said server to a telephony signaling network, said signaling network for carrying signaling information relevant to the establishment of call paths on a switched traffic carrying telephony network, said first interface adapted to receive signaling messages prior to establishment of associated call paths on said traffic carrying telephony network (235 fig. 3; col.2 lines 31-45; *the signaling information in Norris is received prior to establishment of a conversation call path*);

a second interface connecting server to data network (215 fig. 3);

the processor of Norris (*Internet Access server and 205 fig. 3*) is operable to:
receiving a signal indicating an incoming call to a specified telephone line by way of

signaling network (col. 2 lines 31-45) and
in response to receiving said signal, dispatching a data message over data network
indicative of said incoming call to a terminal in communication with said data network by
way of said specified telephone line (603 Fig.6);

Regarding claim 30 in view of claim 29, the processor in Norris can receive a call
disposition message from data terminal over data network (col.6 lines 28-67).

Regarding claim 31 in view of claim 30, Norris teaches the notification server,
wherein said processor is further operable to dispatch a signaling message to said
signaling network to establish a path on said traffic carrying telephony network between
said caller and said specified telephone line, in response to receiving said call
disposition response. (col.6 lines 53-60).

Regarding claim 33 in view of claim 29, Norris teaches the notification server
wherein said data message comprises an internet protocol compliant message(col.6
line 51-67; the data message is sent across a data network(eg. Internet) therefore the
data message comprises an internet protocol compliant message (col. 6 lines 3-7 and
215 and 300 Fig. 3)

Regarding claim 34 in view of claim 30, Norris teaches the processor is further
operable to dispatch a signaling message that establishes a call path between caller
and a voice mail server (col.8 lines 6-14)

Regarding claim 35 in view of claim 30, Norris teaches the notification server
wherein said processor is further operable to dispatch a signaling message to said
signaling network to establish a call path between said caller and a second subscriber

telephone line, on said traffic carrying network (280 Fig.3 and col.6 lines 30-36 and col.8 lines 6-12; the second subscriber telephone line in Norris is connected to a voice mail system).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 32, 36-37, 39-43, 45-48, 50-51 rejected under 35 U.S.C. 103(a) as being unpatentable over Norris in view of Wheeler et al., Patent #5,572,583.

Regarding claim 32, Norris teaches a network with signaling comprising: in response to an incoming call directed to a subscriber telephone line in use to connect a data terminal to a data network can operably dispatch a data message to subscriber displaying caller ID information of the caller and in response to subscriber selecting an option on how to handle the call, send a data message back through the data network so the subscriber can choose to terminate the current data connection and establish a call path, route caller to a voice-mail system, ignore the call, or dispose of the call and continue the data communication (602 Fig.6, col.2 lines 22-45, and col.6 lines 24-36).

Norris further teaches an interface to connect to a public switched network(PSTN) (label 150 of Fig. 1 and 150-10 of Fig.3).

Norris does not expressly teach an Advanced Intelligent Network (AIN) network

but does suggest that other public switched networks can be used at his PSN (e.g AT&T network; col.2 lines 20-25).

Wheeler teaches an AIN network which is a public switched network (Fig.1).

Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify Norris' PSN network to include AIN services as taught by Wheeler. One of ordinary skill in the art would have been motivated to do this as Norris suggest the use of other public switched networks in his call notification system and AIN is an example of a public switched network.

AIN services was also widely used to provide more efficient use of voice and data lines and more enhanced calling capabilities. Furthermore, One of an AIN's fundamental points is that AIN is able to provide more efficient use of telephony networks by signaling to see if Trunk lines are being occupied and if so, able to find the most efficient route to handle the call. A similar idea is presented in Norris whereby the system notifies the call recipient of an incoming call before the call can be established, then from the recipient's response, knows how to route the call.

Regarding claims 36, 37, and 39, Norris teaches a signaling network for carrying signaling information relevant to the establishment of call paths on a traffic carrying telephony network, said switching point operable to dispatch a data message in response to an incoming call directed to a specified subscriber telephone line in use to connect a data terminal to a data network using said traffic carrying telephony network, to a telephony network gateway in communication with a data network gateway, said

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data network gateway operable to dispatch a data message from said over said data network to said data terminal (300 Fig.1; *it is inherently known that utilizing the internet includes having a data network gateway so that the telephony network is able to establish communication with the data network*)

Norris does not expressly teach a Service Control Point (SCP) or a switching point within an AIN for dispatching an AIN termination attempt message.

Wheeler teaches a SCP(43 Fig.1) and a switching point (col.5 lines 36-45) within an AIN for dispatching an AIN termination attempt message (S1 Fig.5, col.9 lines 35-67, and col.13 lines 41-52).

In view of the explanation above in claim 32, it would have been obvious to one of ordinary skill in the art that since AIN capabilities are provided, an incoming call is sent through a AIN network to a SSP from which a termination attempt trigger is then sent to a SCP to provide advanced routing functions before the call is established with the subscriber on the internet from Norris.

Regarding claim 40, Norris teaches a processing element (200 Fig.1) for interconnection with a communications signaling network carrying signals relevant to establishing call paths on a traffic carrying telephone network, said processing element comprising:
a first interface for connecting said processing element with a signaling network in communication with a switch on said traffic carrying telephone network (235 and 150-10 Fig.3);

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a second interface for connecting said processing element with a data network gateway for dispatching data messages on a data network (215 Fig.3);
said processing element operable to dispatch a first message to said data network gateway by way of said second interface in response to receiving an signaling message by way of said first interface, said signal indicative of an incoming call to a specified telephone subscriber line in-use connecting a data terminal to said data network by way of said traffic carrying telephone network (col.6 lines 24-36).

Norris does not expressly teach an Advanced Intelligent Network (AIN) signaling network but does suggest the use of another network at his PSN (e.g AT&T network; col.2 lines 20-25).

Wheeler teaches an AIN network (col.9 lines 35-56).

Therefore at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify Norris' PSN network to include AIN signaling services as taught by Wheeler. One of ordinary skill in the art would have been motivated to do this as Norris suggest the use of an AT&T or other network and Wheeler teaches the use of AIN services as opposed to basic PSTN features. AIN services was also widely used to provide more efficient use of voice and data lines and more enhanced calling capabilities.

Regarding claims 41, 42, and 43 in view of claim 40, Norris teaches dispatching a signaling message on said first interface to establish a call path between said incoming call and:

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said specified telephone subscriber line, or second subscriber telephone line, or voice mail system in response to receiving an appropriate call disposition signal from said data network gateway on said second interface (280 Fig.3 and col.6 lines 28-36 and col.8 lines 6-12; the second subscriber telephone line in Norris is connected to a voice mail system).

Regarding claim 45, Norris in view of Wheeler teaches the processing element of claim 40, wherein said AIN signaling message comprises an AIN call termination attempt message (Wheeler col.9 lines 35-67 and col.13 lines 41-52; a termination attempt message is a result of a termination attempt trigger).

Regarding claims 46, 47, and 48, Norris in view of Wheeler teaches the processing element of claim 45, wherein said AIN call termination attempt message comprises a telephone dial number identifying said subscriber line (*Wheeler col.6 lines 35-53*), or an identifier of an originator of said call, including at least one of a name and dial number associated with said call, or at least one of said name and said dial number (*Wheeler col.6 lines 35-53; ID is a name*).

Regarding claims 50-52 and 56-58, Norris teaches a method of dispatching a message indicative of an incoming call, originating with a caller interconnected with said first switch to a subscriber line interconnected with said second switch, to a terminal in communication with a data network (Fig.1).

Norris as modified by Wheeler in view of the above arguments regarding the implementation of an AIN network with the PSTN of Norris would arrive to the claimed invention below:

the dispatching of a first signaling message from a first signaling point to a second signaling point, then in response to said first signaling message, dispatching a second signaling message from said second signaling point to said processing element; then in response to said second signaling message, dispatching a third signaling message from said processing element to said data network gateway; then in response to said third signaling message, dispatching a data message from said network gateway over said data network to said data terminal.

This is a routing path of an AIN [(the incoming call is sent from Norris S2 Fig.1 to Wheeler's AIN network, the second signaling point is basically another central office 11-13 of Fig.1 that the message has to pass through, from the third signaling message of the processing element is sent to the data network gateway of Norris 300 Fig.1) implemented in Norris' system (Norris Fig.1)].

These signaling messages are prior to the establishment of a call path between the first and second switches because it is after these signaling messages that the subscriber connected to internet can have the option of selection he/she chooses if he wants to establish a direct call path with the incoming caller.

It would have been obvious to one skilled in the art at the time the invention was made to make this modification of modifying Norris' PSTN network to include AIN services as taught by Wheeler. One of ordinary skill in the art would have been

motivated to do this as Norris suggest the use of an AT&T or other network and Wheeler discloses AIN services. AIN services was also widely used to provide more efficient use of voice and data lines and more enhanced calling capabilities.

Regarding claims 53-55 and 59-61 in view of claims 52 and 58 respectively, Norris as modified by Wheeler teaches the second signaling comprising the telephone dial number identifying said subscriber line (*routing incoming call of Norris', col.2 lines 35-39 through 1st SSP and 2nd SSP to the SCP of Wheeler Fig.1 and col.6 lines 35-52 and col.9 lines 35-66, would still include the telephone dial number identifying said subscriber line as the SCP needs this information to know how to process the incoming call*).

Allowable Subject Matter

3. Claim 49 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record does not teach the AIN system of claim 40 that further incorporates a processing element able to monitor a voice mail server and provide a signal to a data network gateway indicative of a message waiting at said voice mail server.

Response to Arguments

4. Applicant's arguments filed 11/18/02 have been fully considered but they are not persuasive in view of claims 21 and 29. Regarding independent claims 21 and 29, Applicant argues that Norris, Patent #5,805,587, cannot anticipate claims 21 and 29 because no separate signaling network is disclosed and that no signaling is received prior to establishment of a call path on a traffic carrying telephony network. Examiner respectfully disagrees as Norris does anticipate and teach each of claims 21 and 29. The Norris patent relates to the same embodiment as the current application of notifying a subscriber currently utilizing a data network of an incoming call. A signaling message in Norris is received prior to establishment of a call path (col.2 lines 31-45, Fig.5 and Fig.6). This prior signaling message before establishing a call path is the primary basis for Norris' invention. Therefore, the Norris patent anticipates claims 21 and 29 and also dependent claims 22-23; 25-28; 30-31; and 33-35 as noted in the office action.

5. Applicant's arguments with respect to claims 32, 36-37, 39-43, and 50-61 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

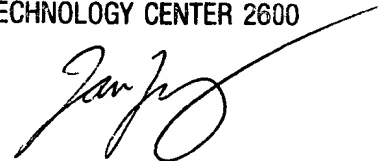
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph T Phan whose telephone number is 703-305-3206. The examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 703-305-4895. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

JTP
January 24, 2003

FAN TSANG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

A handwritten signature in black ink, appearing to read 'Fan Tsang', with a long, sweeping horizontal line extending to the right.